WHAT IS CLAIMED IS:

1. A process for the production of molded parts, blocks and cylinders, comprising:

(1) adding and uniformly distributing

b) a liquid binder containing reactive NCO groups and based on a mixture and/or reaction product of:

i) aromatic and/or aliphatic polyisocyanates,

and

ii) polyols,

to

a) production residues from polyurethane rigid foam production and/or post-consumer parts based on polyurethane rigid foam,

(2) adding the mixture from (1) to a tool,

(3) introducing steam, optionally under pressure, into the tool for the production of the molded part, block or cylinder,

(4) hardening the product,

and

(5) removing the resultant molded part, block or cylinder from the tool,

wherein a) said polyurethane rigid foam comprises an open-cell foam with a density of 5 to 50 kg/m^3 (measured according to DIN 53 420), a compressive strength of 0.05 to 0.2 Mpa (measured according to DIN 53 421) and an open cell content of more than 50% (determined according to DIN ISO 4590-86).

2. The process of Claim 1, wherein (a) said post-consumer parts are communited.

3. The process of Claim 1, wherein the average particle size of the rigid foam materials is from 1 to 80 mm.

4. The process of Claim 1, wherein b) said liquid binder is present in an amount of from 5 to 25% by weight, based on 100% by weight of the rigid foam a).

5. The process of Claim 1, wherein the steam introduced in step (3) is at a temperature of 105 to 140°C.

6. The process of Claim 2, wherein (d) hardening of the product occurs for 1 to 60 minutes.

7. The process of Claim 1, wherein the resultant molded part, block or cylinder has a density of from 40 to 200 kg/m^3.